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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,247	06/19/2006	Matthias, Baca	2003PO3602WOUS	2438
	7590 01/07/2008	EXAMINER		
	perty Department	NATALINI, JEFF WILLIAM		
170 Wood Avenue South Iselin, NJ 08830			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
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Office Action Summary	10/549,247	BACA ET AL.			
Onice Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication app	Jeff Natalini	2858			
Period for Reply	bears on the cover si	reet with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMI 36(a). In no event, however will apply and will expire SIX e, cause the application to be	MUNICATION. , may a reply be timely filed (6) MONTHS from the mailing date of this communication. come ABANDONED (35 U.S.C. § 133).			
Status					
3) Since this application is in condition for allowa closed in accordance with the practice under <i>B</i>	s action is non-final. nce except for forma				
Disposition of Claims					
4) Claim(s) 14-26 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 14-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/of the specification is objected to by the Examine 10) The drawing(s) filed on 12 September 2005 is/Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	wn from consideration requirements or election requirements or election requirements of the distribution is required if the distribution is required in the distribution is required in the distribution in the distribution in the distribution is required in the distribution in the distribution is required in the distribution in the distribution is required in the distribution in the di	ent. or b)⊠ objected to by the Examiner. abeyance. See 37 CFR 1.85(a). Irawing(s) is objected to. See 37 CFR 1.121(d).			
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Priority under 35 U.S.C. § 119 12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1: △ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/12/05.	9a 5) <u> </u>	erview Summary (PTO-413) per No(s)/Mail Date tice of Informal Patent Application her:			

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DETAILED ACTION

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "input side of the high voltage testing device that can be connected to a three phase power supply" in claims 16 and 23 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-17, 19-24, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamer ("Acceptance Testing of Electrical Motors and Generators", cited in the IDS) in view of Kliman et al. (US Publication 20030210059).

In regard to claims 14, 15, 21, 22, and 26, Hamer discloses

(claims 14, 21, and 26) a method/ apparatus for testing faults in a laminated core of a generator (page 1291-page 1 of the article- "Stator Core Test"), a field winding which lies in parallel with an axis of rotation of the generator (figure 1 test supply VM and winding AM lie in parallel with the rotation of the generator) and is connected to a device that produces alternating current (figure 1 VM; last paragraph of column 1 page 1291), an infrared image detection and record device which is designed to detect infrared radiation for inspecting hot spots in the generator (last paragraph of column 2 page 1 under the heading "Stator Core Test"), wherein a frequency makes available a power in a single phase form (last paragraph of column 1 page 1291; see also equation 1) at an output voltage that can be regulated (see equation 1 and the variable elements that make up the test supply voltage).

Hamer lacks specifically disclosing

(claims 14, 21, and 26) wherein the frequency is greater than 50 Hz and the output voltage is at least 400V and

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(claims 15 and 22) having a controllable frequency converter for the purpose of converting the fundamental frequency into a higher frequency.

Kliman et al. discloses in a method for evaluating a core stack wherein a frequency is varied over sampling, wherein at the highest point in the specific evaluation the frequency is 200 Hz (see figures 10-17 and paragraphs 36-37 on page 3), in changing the frequency this is considered a frequency converter and the sampling is changed/converted at an increasing rate (see figures 10-17 and paragraphs 36-37 on page 3).

It would have been obvious to one with ordinary skill in the art at the time the invention was made for Hamer to including the teaching of Kliman et al. and vary the frequency so the frequency would be sampled at rates up to 200Hz in order to determine a core loss (paragraph 37 page 3). In adding the teaching of Kliman et al. to Hamer, and having a value for frequency in equation 1 of Hamer, the voltage applied would be well over 400 volts/turn.

In regard to claims 16, 17, 23, and 24, Hamer discloses wherein the high speed testing device has an input side which can be connected to a three phase power supply at 400 V (figure 1 at least test supply VM has an input that would be able to be connected to a 400 V three phase power supply).

In regard to claim 19, Hamer discloses wherein the field winding comprises at least two lines (figure 1, VM; connected to ground line and power line).

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In regard to claim 20, Hamer discloses wherein the testing device is in the form of a transportable device (the device is connected to the core and is able to be disconnected and transported to a desirable location).

Claims 18 and 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamer and Kliman et al. as applied to claims 14 and 21 above, and further in view of Fischer et al. (6791351).

Hamer as modified lacks wherein an electrical power is made available at a frequency of greater than 400Hz.

Fischer et al. discloses wherein multiple measurements at different increasing frequencies are made in an electrical generator inspection system, including one at 2000 Hz (col 4 lines 32-51).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to include a measurement of a high frequency value as taught by Fischer et al. in order to comprehensively analyze a fault (col 4 line 45-57).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lee (7042229) discloses a system for on line monitoring of insulation condition for DC machines. Hobelsberger et al. (6815957) discloses a method for inspection laminated iron cores of electrical machines for interlamination shorts. Posedel (4996486) discloses a method for inspecting laminated iron core stacks

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by magnetizing the stack with an auxiliary winding. Bisson et al. (4573012) discloses a method for measuring core loss of a laminated ferromagnetic structure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Natalini whose telephone number is 571-272-2266. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on 571-272-2168. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have guestions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeff Natalini

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